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### **AMENDMENTS TO THE DRAWINGS**

Applicant submits amended Figure 16A, with numeral 154 added, and Figure 28A, with the figure legend changed from 28AC to 28A, along with replacement sheets incorporating the amendments.

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Claims 1-29 and 42-48 are pending in the application. Claims 6, 7, 9, 10, 25, 26, 46 and 47 are withdrawn from consideration.

The disclosure is objected to for various informalities, which have been addressed in the Amendments To The Specification on page 2. Accordingly, Applicant respectfully requests withdrawal of the objection.

The drawings are objected to because reference numeral 154 is missing and Figure "28AC" should be relabeled "28A". Amended drawings were submitted on July 15, 2004 with the required changes. A copy of the filing with return postcard is submitted herewith.

Claims 1-5, 8, 11-24, 27-29, 42-45 and 48 are rejected for nonstatutory obviousness-type double patenting as being unpatentable over claims 1-16 of U.S. Patent No. 6,871,520. Applicant submits herewith a terminal disclaimer, thereby obviating the rejection.

Claims 1-5, 8, 11-24, 27-29, 42-45 and 48 are rejected for nonstatutory obviousness-type double patenting as being unpatentable over claims 1-16 of U.S. Patent No. 6,959,569. Applicant submits herewith a terminal disclaimer, thereby obviating the rejection.

Claims 1-5, 8, 11-24, 27-29, 42-45 and 48 are provisionally rejected for nonstatutory obviousness-type double patenting as being unpatentable over claims 1-10 of copending Application No. 10/958,081. Applicant submits herewith a provisional terminal disclaimer, thereby obviating the rejection.

Claims 1-5, 8, 11-24, 27-29, 42-45 and 48 are provisionally rejected for nonstatutory obviousness-type double patenting as being unpatentable over claims 11-21 of copending Application No. 11/011,530. Applicant submits herewith a provisional terminal disclaimer, thereby obviating the rejection.

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Claims 1-5, 8, 11-24, 27-29, 42-45 and 48 are provisionally rejected for nonstatutory obviousness-type double patenting as being unpatentable over claims 1-31 of copending Application No. 11/055,284. Applicant submits herewith a provisional terminal disclaimer, thereby obviating the rejection.

Claims 15-17 are rejected under 35 U.S.C. § 102(b) as being anticipated by Hill (262). Hill does not have means for changing that is configured to move the plurality of racks in the cylinder body parallel to, transversely to, and rotationally about the longitudinal axis of the cylinder body to disengage the racks from the pins. Accordingly, Hill does not anticipate claims 15-17 and Applicant respectfully requests reconsideration of the rejection.

Claims 15-17, 22-24 and 27 are rejected under 35 U.S.C. § 102(b) as being anticipated by Loretto (495). With respect to claims 15-17, Loretto does not have means for changing that is configured to move the plurality of racks in the cylinder body parallel to, transversely to, and rotationally about the longitudinal axis of the cylinder body to disengage the racks from the pins. Loretto's racks do not move parallel to the longitudinal axis to disengage from the pins.

With respect to claims 22-24 and 27, Loretto's racks are not configured to disengage from the pins in response to movement in the cylinder body parallel to, transversely to, and rotationally about the longitudinal axis. Loretto's racks do not move parallel to the longitudinal axis to disengage from the pins. Accordingly, Loretto does not anticipate claims 15-17 and Applicant respectfully requests reconsideration of the rejection.

Claims 1-5, 8, 13-20, 22-24, 27-29, 42-45 and 48 are rejected under 35 U.S.C. § 102(b) as being anticipated by Sperber et al. (181).

With respect to claims 1-5 and 11-14, Sperber's carrier sub-assembly 6, 9, 8 is not moveable parallel to the longitudinal axis of the cylinder body between a first position and a second position to disengage the racks from the pins. When

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Sperber's carrier sub-assembly moves parallel to the longitudinal axis, as illustrated in Figs. 2b and 2c, his spring/fixing element 6 locks the racks and pins together, rather than disengaging them. As discussed at column 6, lines 1-8, once the carrier sub-assembly has moved to the left, as seen in Fig. 2c, it is no longer movable longitudinally to the right because the spring 600 enters the cutout 22.

With respect to claims 15-20, 22-24, 27-29, and 42-45. Sperber's means for changing the lock cylinder between a rekeying condition and an operating condition is not configured to move the plurality of racks in the cylinder body parallel to, transversely to, and rotationally about the longitudinal axis of the cylinder body to disengage the racks from the pins. Sperber's lock does not rotate to disengage the racks from the pins.

With respect to claim 48, Sperber's lock starts from an uncoded zero position. A valid key is in the lock in the zero condition, thereby coding the lock to the valid key. Once the first valid key is inserted into Sperber's lock, the lock is no longer rekeyable by rotating the lock. As stated at column 6, lines 1-5,

"...a detent spring 600 can pivot downwardly: this prevents the release of the fixing of the code of the locking core without disassembly of the locking system."

In view of the above comments and claim amendments, applicant submits that Sperber does not anticipate claims 1-5, 8, 11, 13-20, 22-24, 27-29, 42-45 and 48 and respectfully requests reconsideration of the rejection.

Dated: 9/6/2006

Respectfully submitted,



Richard J. Veltman  
Reg. No. 36,957

**BEST AVAILABLE COPY****AMENDED PARAGRAPHS WITHOUT MARKUPS**

[0001] This application is a divisional of U.S. Application No. 10/256,066, filed September 26, 2002.

[0002] The classification of the claims contained in this application is class 70, subclass 492. Parent Application No. 10/256,066 issued to U.S. Patent No. 6,860,131 on March 1, 2005.

[0036] Figures 27a- 27e are views of an alternative embodiment of the carrier.

[0049] The properly keyed lock cylinder 10, without the key 160 inserted, is illustrated in Figures 4-7. The pins 113 are biased to the bottom of the channels 74 and, based on the cut of the key 160, the racks 92 are disposed at various positions in the slots 103 of the carrier 90. In this configuration, the locking bar 94 extends from the carrier 90 to engage the groove 29 in the cylinder body 12 to prevent the plug assembly 14 from rotating in the cylinder body 12 and the racks 92 engage the pins 113, as illustrated in Figure 4. In addition, the bullet-shaped features 78 are misaligned with the grooves 111 in the racks 92 and therefore interfere with movement of the racks 92 parallel to the longitudinal axis of the lock cylinder 10, preventing the lock cylinder 10 from being rekeyed.